



# Ravi Baghel

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Karnataka

## Professional Summary

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Highly-motivated focused professional with 3 years of experience as Heat Treatment-Quality and Production engineer. Adept at identifying and implementing shop floor process optimization and control methods to eliminate turn-backs to reduce overall scrap costs. With demonstrated ability to train, manage and motivate team members to achieve organisational objectives. Consistently participates in lean manufacturing and continuous improvement initiatives. Hands on experience in controlling Metallurgical Lab and driving day to day activities of it. Strong project engineering and planning skills with keen ability to multi-task in a fast-paced, results-driven environment. Efficient writing and communication skills that build a good customer satisfaction and relation

## Work experience

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Automotive Axles Limited, Mysore

June 2017 — Present

Senior Engineer

Currently working in Quality Assurance Department (Heat Treatment) concerning with Metallurgical

Quality Assurance.

- Monitoring and controlling heat treatment parameters and assuring the quality of the products like Drive gears and pinions, diff parts spindles and input shafts.
- Effective process improvements and streamlined process control with respect to QMS
- Hands on experience with the heat treatment processes like Case carburizing, Austempering, induction hardening shot peening normalizing
- Continuous carburizing furnace and induction furnaces validation of process and their parameters
- Furnace health checkup through audit & correcting the abnormality
- Drive RCA for internal Non Conformance & monitoring corrective action
- Maintaining 5S, BIQ cell activity, CLRIS and doing Kaizen Activity in respective area.
- Understanding the Non conformance and eliminating the NC parts as well as avoiding to be released to next customer.
- Preparing and understanding the Root cause analysis and 8 D, SIX SIGMA CAPA
- Following the control plan and work instructions and audits as per ISO TS 16949 - QMS and ISO 14001 – EMS, CQI-9 and OHSAS.
- Kaizen implementations, concept of 5S in workplace, maintaining shop-floor ethics, man power management.
- Solid knowledge on thermocouples, oxyprobes and instruments related to furnace parameter measuring instruments.
- PPAP, PMI and national and international codes and standards of materials
- Understanding the different material grades used in automotive applications like low carbon and medium carbon steels with SAE grades of SAE 8822, 8622, 8620, 4124, 4145, 8627, EN 353.
- Team member of metallurgy lab involved in calibration activities and mechanical testing like tensile compressive and hardness testing - Brinell, Vickers micro Vickers and rockwell Hardness, Microstructural analysis case depth checking both effective and total and NMT grain size etc.
- Supporting NDT parts process follow ups without delaying

Also a Certified NDT Level II Inspector in MPI.

## Projects

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### TATA STEEL KALINGANAGAR, JAJPUR

- Intern (May - July, 2016) - To study and analyze some methods to reduce clogging in sub entry nozzle during continuous casting of steel. Earned practical knowledge of secondary steel making processes.

### Carburization of mild steel (Final Year Project : Jan 2016- April 2017)

- To study the effect of carburization temperature, carburization time and media on mechanical properties wear resistance of mild steel samples. .
- Analysis of mechanical properties of carburised mild steel through hardness, tensile toughness test.

### MUPHEC-Multi Purpose Heat Converter (3rd Year college Project)

- To convert heat energy to electrical energy by using this device .
- Copper plate is used to absorb heat and heat sink to cause temperature gradient and to generate voltage.

## Education

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Bachelor in Technology, Metallurgical and  
Materials Engineering

NIT Rourkela

July 2013 — June 2017

Higher Secondary Education, Science

S.Mt B.D. Inter college, Agra

July 2011 — May 2013

Secondary Education

S.Mt B.D. Inter college, Agra

June 2001 — May 2011

## Interests

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Watching Tv series and movies, Listening Music, Cooking, Travelling

## Skills

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- Quality control analysis & Data Science.
- Metallurgical analysis & Study
- Innovation and awareness, critical thinking
- Project Management, Great communication and presentation skills
- Writing and Basic IT skills
- Managerial and leadership skills

## Personal Information

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Date of Birth : 17/06/1998

Marital Status : Single

Nationality : INDIAN

Languages known: English, Hindi, Kannada, Oriya

## References

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References available upon request.